

1337 S. 46th Street Building 201 Richmond, CA 94804

Date: 6/11/2012

Subject: Analytical Testing Results - Project R33911

SDG: 12145B

From: Brenda Bettencourt, Director

EPA Region 9 Laboratory

MTS-2

To: Richard Fetzer

US EPA Region 3, Eastern Response Branch

3HS31

Attached are the results from the analysis of samples from the **Dimock Residential Groundwater** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Dissolved Hydrocarbon Gases by GC

DIM0186328 DIM0186328



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Richard Fetzer US EPA Region 3, Eastern Response Branch SDG: 12145B

 Project Number:
 R33911
 100 Gypsum Road
 Reported:
 06/11/12 16:04

Project: Dimock Residential Groundwater Stroudsburg PA, 18360

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
HW62	1205066-01	Water	05/22/12 15:59	05/24/12 09:50
TB55	1205066-02	Water	05/22/12 11:05	05/24/12 09:50
FB23	1205066-03	Water	05/23/12 13:25	05/24/12 09:50
HW63	1205066-04	Water	05/23/12 13:09	05/24/12 09:50
HW63z	1205066-05	Water	05/23/12 13:10	05/24/12 09:50
TB56	1205066-06	Water	05/23/12 09:55	05/24/12 09:50
FB22	1205066-07	Water	05/22/12 11:58	05/24/12 09:50
HW64	1205066-08	Water	05/22/12 11:10	05/24/12 09:50
HW64-P	1205066-09	Water	05/22/12 11:40	05/24/12 09:50
TB54	1205066-10	Water	05/22/12 08:10	05/24/12 09:50

SDG ID 12145B

Work Order(s)

1205066

1205066 FINAL 06 11 12 1604 Page 1 of 6

DIM0186328 DIM0186329



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Sample Results

Analyte		Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID:	1205066-01							Wat	er - Sampl	ed: 05/22/12 15:59
Sample ID:	HW62								Dissolved	Gases by RSK-175
Methane			ND	U	1.2	ug/L	B2E0164	05/29/12	05/29/12	RSK-175/SOP325
Ethane			ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene			ND	U	1.1	11	n	"	"	RSK-175/SOP325
Surrogate: Ace	etylene			90 %	66.4-153%		"	"	"	
Lab ID:	1205066-02							Wat	er - Sampl	ed: 05/22/12 11:05
Sample ID:	TB55								Dissolved	Gases by RSK-175
Methane		RE1	ND	U	1.2	ug/L	B2F0005	05/29/12	06/01/12	RSK-175/SOP325
Ethane		RE1	ND	U	1.2	"	"	n	11	RSK-175/SOP325
Ethene		RE1	ND	U	1.1	n	п	"	n	RSK-175/SOP325
Surrogate: Ace	etylene	RE1		113 %	66.4-153%		"	"	"	
Lab ID:	1205066-03							Wat	er - Sampl	ed: 05/23/12 13:25
Sample ID: Methane	FB23	RE1	ND	U	1.2	ug/L	B2F0005	05/29/12		l Gases by RSK-175 RSK-175/SOP325
Ethane			ND		1.2	"	"	"	"	RSK-175/SOP325
Ethene		RE1 RE1	ND		1.1	"	n	"	"	RSK-175/SOP325
Surrogate: Ace	etylene	RE1		114 %	66.4-153%		"	"	"	
Lab ID:	1205066-04							Wat	er - Sampl	ed: 05/23/12 13:09
Sample ID:	HW63								Dissolved	I Gases by RSK-175
Methane		RE1	2,600		24	ug/L	B2E0168	05/30/12	05/31/12	RSK-175/SOP325
Ethane			4.2		1.2	"	B2E0164	05/29/12	05/30/12	RSK-175/SOP325
Ethene			ND	U	1.1	n	"	"	n	RSK-175/SOP325
Surrogate: Ace	etylene			112 %	66.4-153%		"	"	"	
Surrogate: Ace	etylene	RE1		115 %	66.4-153%		B2E0168	05/30/12	05/31/12	
Lab ID:	1205066-05							Wat	er - Sampl	ed: 05/23/12 13:10
Sample ID:	HW63z				21		D2E0140	05/20/12		Gases by RSK-175
Methane		RE1	2,300		21	ug/L	B2E0168	05/30/12		RSK-175/SOP325
Ethane			3.9		1.2	"	B2E0164	05/29/12	05/30/12	RSK-175/SOP325
Ethene			ND	U	1.1		···			RSK-175/SOP325
Surrogate: Ace	-			114 %	66.4-153%		"	"	"	
Surrogate: Ace	<u> </u>	RE1		115 %	66.4-153%		B2E0168	05/30/12	05/31/12	
Lab ID:	1205066-06							Wat	er - Sampl	ed: 05/23/12 09:55
Sample ID: Methane	TB56	RE1	ND	U	1.2	ug/L	B2F0005	05/29/12		Gases by RSK-175 RSK-175/SOP325
Ethane		RE1	ND	U	1.2	"	"	"	"	RSK-175/SOP325

1205066 FINAL 06 11 12 1604 Page 2 of 6



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Richard Fetzer US EPA Region 3, Eastern Response Branch SDG: 12145B

Project Number: R33911 **100 Gypsum Road Reported:** 06/11/12 16:04

Project: Dimock Residential Groundwater Stroudsburg PA, 18360

Sample Results

Analyte		Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID:	1205066-06							Wat	er - Sample	ed: 05/23/12 09:55
Sample ID: Surrogate: Acet	TB56 tylene	RE1		115 %	66.4-153%		B2F0005	05/29/12	Dissolved 06/01/12	Gases by RSK-175
Lab ID:	1205066-07							Wat	er - Sample	ed: 05/22/12 11:58
Sample ID:	FB22								Dissolved	Gases by RSK-175
Methane		RE1	ND	U	1.2	ug/L	B2F0005	05/29/12	06/01/12	RSK-175/SOP325
Ethane		RE1	ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		RE1	ND	U	1.1	u .	п	n	n	RSK-175/SOP325
Surrogate: Acet	ylene	REI		114 %	66.4-153%		"	"	"	
Lab ID:	1205066-08							Wat	er - Sampl	ed: 05/22/12 11:10
Sample ID:	HW64								Dissolved	Gases by RSK-175
Methane		RE1	ND	U	1.2	ug/L	B2E0168	05/29/12	05/30/12	RSK-175/SOP325
Ethane		RE1	ND	U	1.2	"	"	"	n	RSK-175/SOP325
Ethene		RE1	ND	U	1.1	"	n	"	H.	RSK-175/SOP325
Surrogate: Acet	ylene	RE1		95 %	66.4-153%		"	"	"	
Lab ID:	1205066-09							Wat	er - Sampl	ed: 05/22/12 11:40
Sample ID:	HW64-P								Dissolved	Gases by RSK-175
Methane		RE1	ND	U	1.2	ug/L	B2E0168	05/29/12	05/30/12	RSK-175/SOP325
Ethane		RE1	ND	U	1.2	"	"	"	n	RSK-175/SOP325
Ethene		RE1	ND	U	1.1	"	п	n	n	RSK-175/SOP325
Surrogate: Acet	ylene	REI		112 %	66.4-153%		"	"	"	
Lab ID:	1205066-10							Wat	er - Sampl	ed: 05/22/12 08:10
Sample ID:	TB54									Gases by RSK-175
Methane		RE1	ND	U	1.2	ug/L	B2F0005	05/29/12		RSK-175/SOP325
Ethane		RE1	ND	U	1.2	"	n .	"	"	RSK-175/SOP325
Ethene		RE1	ND	U	1.1	n,	н	n	"	RSK-175/SOP325
Surrogate: Acei	ylene	RE1		116 %	66.4-153%		"	"	"	

1205066 FINAL 06 11 12 1604 Page 3 of 6



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Quality Control

Analyte	Result		Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B2E0164 - RSK175 - Dissolved HC Gases							D	issolved G:	Prepared & A	•	
Blank (B2E0164-BLK1)											
Methane	ND		U	1	.2 ug/L						
Ethane	ND		U	1	.2 "						
Ethene	ND		U	1	.1 "						
Surrogate: Acetylene		71.3			"	66.5		107	66.4-153		
LCS (B2E0164-BS1)											
Methane	41.7			1	.2 ug/L	44.1		95	70-130		200
Ethane	82.9			1	.2 "	83.2		100	77-137		200
Ethene	77.2			1	.1 "	78.3		99	78-138		200
Surrogate: Acetylene		71.1			"	72.0		99	66.4-153		
Matrix Spike (B2E0164-MS2)			Source: 1205	5066-01							
Methane	45			1	.2 ug/L	44.1	ND	102	70-130		20
Ethane	88.1			1	.2 "	83.2	ND	106	70-130		20
Ethene	81.7			1	.1 "	78.3	ND	104	70-130		20
Surrogate: Acetylene		74.9			"	72.0		104	66.4-153		
Matrix Spike Dup (B2E0164-MSD2)			Source: 1205	5066-01							
Methane	47			1	.2 ug/L	44.1	ND	107	70-130	4	20
Ethane	91.8			1	.2 "	83.2	ND	110	70-130	4	20
Ethene	84.9			1	.1 "	78.3	ND	108	70-130	4	20
Surrogate: Acetylene		76.7			"	72.0		106	66.4-153		
Batch B2E0168 - RSK175 - Dissolved HC Gases							-		Prepared &	-	
Blank (B2E0168-BLK1)							Ъ	issolved G	ases by RSK-17	5 - Quality	Contro
Methane	ND		U	1	.2 ug/L						
Ethane	ND		U		.2 "						
Ethene	ND		U		.1 "						
Surrogate: Acetylene		61.1			"	66.5		92	66.4-153		
LCS (B2E0168-BS1)											
Methane	41.5			1	.2 ug/L	44.1		94	70-130		200
Ethane	82.9				.2 "	83.2		100	77-137		200
Ethene	77.3				.1 "	78.3		99	78-138		200

Batch B2F0005 - RSK175 - Dissolved HC Gases

Prepared & Analyzed: 06/01/12 Dissolved Gases by RSK-175 - Quality Control

Blank (B2F0005-BLK1)

1205066 FINAL 06 11 12 1604

Page 4 of 6

DIM0186328 DIM0186332



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 Project Number:
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 100 Gypsum Road
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 06/11/12 16:04

Project: Dimock Residential Groundwater Stroudsburg PA, 18360

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit
Batch B2F0005 - RSK175 - Dissolved HC Gases								Prepared &	Analyzed: 06/01/12
Blank (B2F0005-BLK1)						D	Dissolved G	ases by RSK-17	5 - Quality Control
Methane	ND	U	1.	2 ug/L					
Ethane	ND	U	1.	_					
Ethene	ND	U	1.	1 "					
Surrogate: Acetylene		70.5		"	66.5		106	66.4-153	
LCS (B2F0005-BS1)									
Methane	40.1		1.	2 ug/L	44.1		91	70-130	200
Ethane	7 9.9		1.	2 "	83.2		96	77-137	200
Ethene	74.6		1.	1 "	78.3		95	78-138	200
Surrogate: Acetylene		68.4		"	72.0		95	66.4-153	

1205066 FINAL 06 11 12 1604 Page 5 of 6



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Qualifiers and Comments

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

1205066 FINAL 06 11 12 1604 Page 6 of 6

DIM0186328 DIM0186334